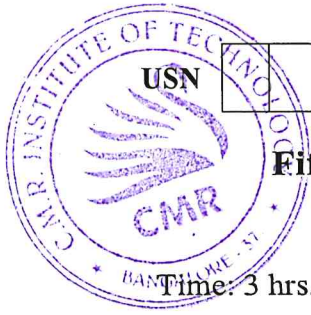


CBCS SCHEME

18MCA51



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Fifth Semester MCA Degree Examination, July/August 2022 Programming using C# .Net

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. With a neat diagram, explain the .NET execution engine. (10 Marks)
- b. Write a short note on Windows Workflow Foundation. (05 Marks)
- c. Explain the benefits of .NET Framework. (05 Marks)

OR

- 2 a. Develop a C# program to boxing, unboxing and bad-boxing. List out the difference between value type and reference type. (10 Marks)
- b. What is an Assembly? Describe the information stored in an assembly. (06 Marks)
- c. Write a short note on namespace. (04 Marks)

Module-2

- 3 a. Discuss the different ways of enforcing the encapsulation with examples for each. (10 Marks)
- b. Along with an example, explain "Partial" keyword importance. (05 Marks)
- c. Demonstrate the indexes with an example. (05 Marks)

OR

- 4 a. Discuss the concept of sealed class and sealed method suitable example. (08 Marks)
- b. List and explain the different types of access modifiers. (06 Marks)
- c. Develop a C# program to overload the + operators. (06 Marks)

Module-3

- 5 a. Describe the four steps to create and use a delegate in your program with an example. (10 Marks)
- b. Explain how custom exceptions will be created in C# with suitable example. (10 Marks)

OR

- 6 a. Describe the architecture of ADO.NET with a neat diagram in detail. (10 Marks)
- b. Explain the procedure of getting connected to a database and running the following queries with relevant example:
 - (i) Insert record to table.
 - (ii) Delete records from a table. (10 Marks)

Module-4

- 7 a. What is GUI? List and explain basic GUI controls of Window forms. (10 Marks)
- b. Write a C# program for addition of two numbers from text boxes display the result in form using button click event. (06 Marks)
- c. Write a short note on MDI window. (04 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

OR

- 8 a. Discuss the WPF Architecture with a neat diagram. (10 Marks)
b. Explain XAML elements with an example. (05 Marks)
c. Explain markup extension classes in XAML. (05 Marks)

Module-5

- 9 a. Discuss the Multi-Tier application architecture of ASP.Net with a neat diagram. (10 Marks)
b. Explain the session management in ASP.Net using controls. (10 Marks)

OR

- 10 a. Describe the different validation controls in ASP.NET. (10 Marks)
b. Illustrate the controls from AJAX control toolkit. (10 Marks)

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